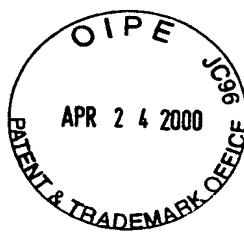


PATENT APPLICATION DECLARATION

(Attorney's Docket No.: ZILG.227US0)



I, MOHAMMAD R. PIRJABERI, declare as follows:

1. My residence, post office address and country of citizenship given below are true and correct.

2. I believe I am the original, first and sole inventor of the subject matter which is claimed and for which a patent is sought in the patent application entitled "USING A REDUCED MEMORY LOOK UP TABLE FOR GAMMA CORRECTION THROUGH INTERPOLATION," Serial No. 09/504,463, filed February 16, 2000, and I have reviewed and understand the contents of the specification, including its claims.

3. I acknowledge my duty to disclose to the Office all information known to me to be material to patentability of this application, in accordance with 37 C.F.R. Section 1.56, which is defined on the attached page.

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 14/4/2000

Mohammad R. Pirjaberi

Residence and  
Post Office Address:  
870 Windsor Hills Circle  
San Jose, California 95123  
(Citizenship: U.S.A.)

## **Section 1.56 Duty to Disclose Information Material to Patentability.**

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

(1) prior art cited in search reports of a foreign patent office in a counterpart application, and

(2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

(1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or

(2) It refutes, or is inconsistent with, a position the applicant takes in:

(i) Opposing an argument of unpatentability relied on by the Office, or  
(ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

(1) Each inventor named in the application;

(2) Each attorney or agent who prepares or prosecutes the application; and

(3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

CERTIFICATE UNDER 37 C.F.R. §3.73(b)

Applicants: **MOHAMMAD R. PIRJABERI**

Serial No.: **09/504,463**

Filed: **February 16, 2000**

For: **USING A REDUCED MEMORY LOOK UP TABLE FOR  
GAMMA CORRECTION THROUGH INTERPOLATION**



Zilog, Inc., a corporation certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of either:

A. An assignment from the inventor(s) of the patent application identified above. A copy of the assignment is attached.

OR

B. A chain of title from the inventor(s), of the patent application identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

Copies of assignment or other documents in the chain of title are attached.

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Dated: April 14, 2000

Signature: Richard R. Pickard  
Name: **Richard R. Pickard**  
Title: **Senior Vice President, General Counsel & Secretary**

ZILG.227US0

ASSIGNMENT

COPY

WHEREAS, MOHAMMAD R. PIRJABERI, a resident of San Jose, California, hereinafter referred to as "Assignor," has invented certain new and useful improvements as described and set forth in an application for Letters Patent of the United States entitled "USING A REDUCED MEMORY LOOK UP TABLE FOR GAMMA CORRECTION THROUGH INTERPOLATION," filed with the U.S. Patent Office on February 16, 2000, under Serial No. 09/504,463;

WHEREAS, Zilog, Inc., a Corporation of the State of Delaware, having a place of business at 910 East Hamilton Avenue, Campbell, California 95008, hereinafter referred to as "Assignee," desires to acquire the entire right, title and interest in and to said application, said invention, said improvements, and all Letters Patent which may be granted thereon in the United States or any foreign country;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged by Assignor,

1. Assignor hereby sells, assigns, transfers and conveys to Assignee the entire worldwide right, title and interest in and to said application, said invention and said improvements, and in and to any and all Letters Patent on said invention and improvements that may be granted by the United States or any foreign country, including any divisions, substitutions, continuations in whole or in part, conversions, reissues, additions or extensions thereof, said interest to be held and enjoyed by Assignee as fully and exclusively as it would have been held and enjoyed by said Assignor had this Assignment and transfer not been made.

2. Assignor hereby warrants, covenants and represents that he has not heretofore granted any license, right or privilege with respect to said application, invention or improvements, or in any other way encumbered the same, and that he has the full right to make this Assignment.

3. Assignor further agrees that at the request and expense of Assignee, but without charge to said Assignee, he will promptly execute all papers necessary or desirable to perfect ownership of said invention, improvements, applications or said Letters Patent, in said Assignee, and will execute all oaths and other papers, within the truth, that are necessary or desirable for prosecuting said application, for use in interference proceedings involving said invention or improvements, for refiling said applications, for filing of said divisional, substitution,

COPY

continuation or continuation-in-part applications covering said invention or improvements which are deemed necessary or desirable by Assignee, for reissuance or reexamination of said Letters Patent, or for the filing in foreign countries of applications for Letters Patent covering said invention or improvements.

4. The terms, covenants and provisions of this Assignment shall inure to the benefit of Assignee, its successors, assigns and other legal representatives, and shall be binding upon Assignor, his heirs, legal representatives and assigns.

IN TESTIMONY WHEREOF, I have executed and delivered to Assignee this instrument this 14 day of April, 2000.

Mohammad R. Pirjuberi  
Mohammad R. Pirjuberi

STATE OF CALIFORNIA )  
 ) ss  
COUNTY OF )

On \_\_\_\_\_, before me, \_\_\_\_\_, personally appeared \_\_\_\_\_, personally known to me/proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

(SEAL)

Notary Public

COPY

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

) Group Art Unit: 2775

) MOHAMMAD R. PIRJABERI

) Serial No.: 09/504,463

) Filed: February 16, 2000

) For: USING A REDUCED MEMORY  
LOOK UP TABLE FOR GAMMA  
CORRECTION THROUGH  
INTERPOLATIONS

) San Francisco, California



Assistant Commissioner for Patents  
Washington, D.C. 20231

POWER OF ATTORNEY BY ASSIGNEE

Sir:

The undersigned, having received the full right, title and interest in and to the above-identified patent application by way of a written assignment from Applicant, hereby appoints the practitioners of Majestic, Parsons, Siebert & Hsue P.C. who are associated with the Customer Number provided below to prosecute this patent application, to transact all business in the U.S. Patent and Trademark Office connected therewith, to receive the original Letters Patent, and to substitute or associate other attorneys on its behalf. I further direct that all correspondence be addressed to that Customer Number.

Customer No:



**020227**

PATENT TRADEMARK OFFICE

Assignee: Zilog, Inc.

Dated: April 14, 2000

(Atty. Docket: ZILG.227US0)

By: Richard R. Pickard  
Richard R. Pickard  
Title: Senior Vice President, General Counsel  
& Secretary